

Message

From: Jones, Aaryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=C2BED08A5BD54DC5A9D59C5A345C9892-JONES, AARYN]
Sent: 11/27/2017 10:16:19 PM
To: Allenbach, Becky [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fd8d7185973c44268441863f02a769d1-Allenbach, Becky]; Hall, Renea [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7e6fa15b05c0453da3cae5dacdb93574-Hall, Renea]
Subject: RE: [External] RE: Increase value - FW: Chemours Outfall 002 Results

Hi Becky and Renea,

I have not cross-checked these coordinates, but here are some that were part of 2015 inspection report of the landfill that I found in the Waste Division's online documents:

GPS COORDINATES: N: 34.96661 E: -78.45251

Also, I think the CFPUA and Brunswick intakes are actually upstream of International Paper, perhaps co-located with the blue diamond labelled "LCFWA" on the map below, at Lock and Dam No. 1 in Bladen County, according to a news article – so, please definitely verify that. But that would make more sense as far as concentration distributions along the river, with these two utilities testing higher than the others because that Lock and Dam No. 1 location is slightly closer to the facility. It's also located prior to the confluence of Cape Fear and Black River. Can't really explain the lower GenX level at Bladen Bluffs using that logic, other than perhaps on the sampling dates in question here – the slug of GenX may have already migrated past Bladen Bluffs (based on the spill date of October 6) and was just reaching/impacting the area of Lock and Dam No. 1.

Aaryn Jones
Environmental Scientist
U.S. Environmental Protection Agency
61 Forsyth St, S.W.
Atlanta, GA 30303
(404) 562-8969
jones.aaryn@epa.gov

From: Allenbach, Becky
Sent: Monday, November 27, 2017 3:55 PM
To: Hall, Renea <Hall.Renea@epa.gov>
Cc: Jones, Aaryn <Jones.Aaryn@epa.gov>
Subject: RE: [External] RE: Increase value - FW: Chemours Outfall 002 Results

Maybe Aaryn can provide the location of the landfill for GIS

Becky B. Allenbach, Chief
Grants and Drinking Water Protection Branch
Water Protection Division
EPA Region 4 - Atlanta
Office: 404-562-9687
Cell: 678-641-0032

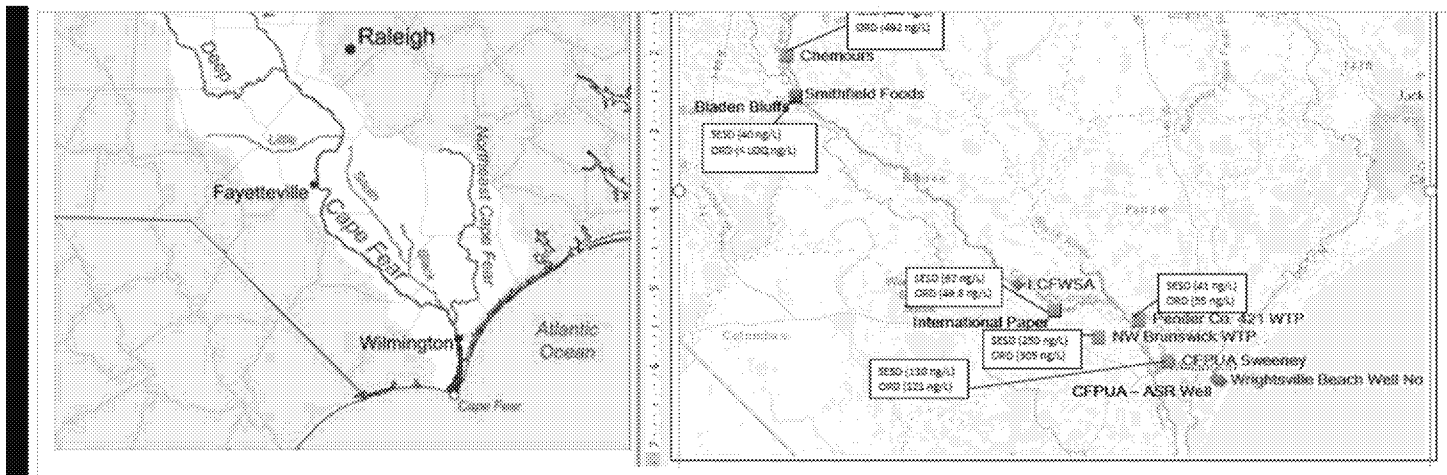
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From: Hall, Renea
Sent: Monday, November 27, 2017 3:43 PM
To: Allenbach, Becky <Allenbach.Becky@epa.gov>
Subject: RE: [External] RE: Increase value - FW: Chemours Outfall 002 Results

On the picture, it seems like the HFPO-DA gradually decreases (62 → 41) just before the confluence of the Black and Northeast Cape Fear River with the Cape Fear River...

I want to work with the GIS group to learn a little more about where the Brunswick intake is positioned relative to the Cape Fear River, since it seems to be a touch more inland. I'll look into this in the morning.

Also, looking into Brunswick's treatment...



From: Allenbach, Becky
Sent: Monday, November 27, 2017 3:36 PM
To: Hall, Renea <Hall.Renea@epa.gov>
Subject: RE: [External] RE: Increase value - FW: Chemours Outfall 002 Results

Confluence of which river?

Becky B. Allenbach, Chief
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From: Hall, Renea
Sent: Monday, November 27, 2017 3:24 PM
To: Allenbach, Becky <Allenbach.Becky@epa.gov>
Subject: FW: [External] RE: Increase value - FW: Chemours Outfall 002 Results

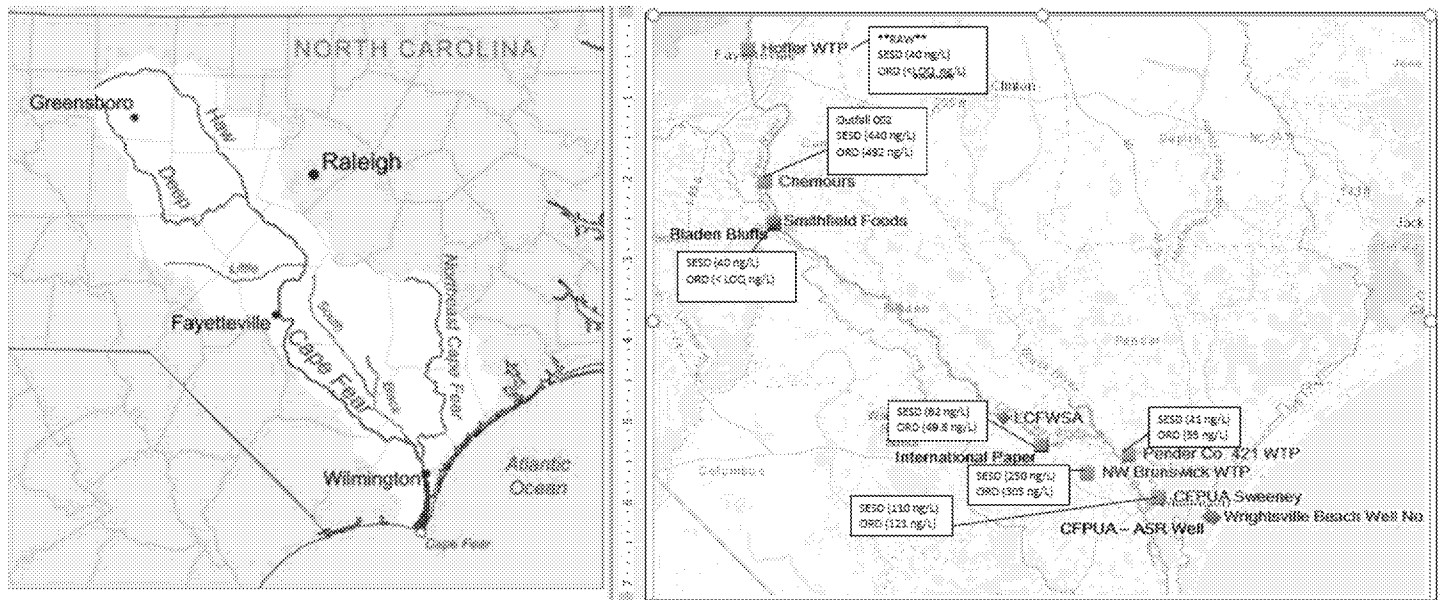
Becky,

All of the systems downstream are Surface Water systems. This includes CFPUA, IP, Pender, Bladen Bluffs and Brunswick.

The only RAW sample is upstream of Chemours, Hoffer WWTP.

It seems like there's a spike after the confluence; therefore, I'm looking into:

1. Possible sources along the South, Northeast Cape Fear River and Black River tributaries
2. Treatment near IP and Pender.



From: Walker, Mary
Sent: Monday, November 27, 2017 10:38 AM
To: Allenbach, Becky <Allenbach.Becky@epa.gov>; Campbell-Dunbar, Shawneille <Campbell-Dunbar.Shawneille@epa.gov>; Hall, Renea <Hall.Renea@epa.gov>; Davis, Molly <Davis.Molly@epa.gov>; Janovitz, Sara <Janovitz.Sara@epa.gov>
Subject: RE: [External] RE: Increase value - FW: Chemours Outfall 002 Results

Enforcement Confidential

Becky and all,

Please take a look at these results and the distribution of the values on the map. They don't make a lot of sense to me. IP and Pender Co – both between Outfall 002 and Brunswick – are at 62 and 41 ng/l – but Brunswick at 250 and CFPUA Sweeney (downstream) is at 110. I hope the two elevated ones are not elevated due to something going on in the treatment system as a result of previous intake of contaminated water. Wonder if IP and Pender are raw and Brunswick and Sweeney are only two finished. Can you look into and help me understand this?

Also, I am assuming that the CFPUA data is for Sweeney and that it's finished water (rather than the ASR well). Can you confirm this?

Thanks,
Mary

From: Allenbach, Becky
Sent: Wednesday, November 22, 2017 10:11 AM
To: Walker, Mary <walker.mary@epa.gov>
Subject: FW: [External] RE: Increase value - FW: Chemours Outfall 002 Results

From North Carolina who is doing sample collection

*Becky B. Allenbach, Chief
Grants and Drinking Water Protection Branch
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From: Johnson, Chris [<mailto:chris.johnson@ncdenr.gov>]
Sent: Wednesday, November 22, 2017 9:53 AM
To: Allenbach, Becky <Allenbach.Becky@epa.gov>
Cc: Cox, Heidi <heidi.cox@ncdenr.gov>; Allen, Trent <trent.allen@ncdenr.gov>; Overby, Tommy D <tommy.overby@ncdenr.gov>; Brantley, Mark <mark.brantley@ncdenr.gov>; Culpepper, Linda <linda.culpepper@ncdenr.gov>
Subject: RE: [External] RE: Increase value - FW: Chemours Outfall 002 Results

Becky, please see Heidi's response to your question below.

Chris Johnson
NC DEQ-DWR
Water Sciences Section
919-733-3908

ED_002096A_00001032-00004

From: Cox, Heidi
Sent: Wednesday, November 22, 2017 9:41 AM
To: Johnson, Chris <chris.johnson@ncdenr.gov>; Allen, Trent <trent.allen@ncdenr.gov>; Overby, Tommy D <tommy.overby@ncdenr.gov>; Brantley, Mark <mark.brantley@ncdenr.gov>
Subject: Re: [External] RE: Increase value - FW: Chemours Outfall 002 Results

The samples we are collecting from the water plants are finished water samples. Some of the water systems are collecting their own samples and some may be raw and others are finished water but we have been directed to collect finished water.

Heidi Lane Cox
Regional Engineering Supervisor
Wilmington and Fayetteville Regional Offices
Public Water Supply Section
Department of Environmental Quality
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(910) 409-5777 mobile
Heidi.cox@ncdenr.gov
127 Cardinal Drive Ext.
Wilmington, NC 28405

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Johnson, Chris
Sent: Wednesday, November 22, 2017 9:30:42 AM
To: Allen, Trent; Cox, Heidi; Overby, Tommy D; Brantley, Mark
Subject: FW: [External] RE: Increase value - FW: Chemours Outfall 002 Results

Could one of you respond to Becky Allenbach about her question. I was about to tell her they are finished water, but wanted to confirm since you all actually pulled them. Thanks.

Chris Johnson
NC DEQ-DWR
Water Sciences Section
919-733-3908

From: Allenbach, Becky [<mailto:Allenbach.Becky@epa.gov>]
Sent: Wednesday, November 22, 2017 9:18 AM
To: France, Danny <France.Danny@epa.gov>; Burdette, Diana <Burdette.Diana@epa.gov>; Sivertsen, Scott <Sivertsen.Scott@epa.gov>
Cc: Johnson, Chris <chris.johnson@ncdenr.gov>; Walker, Mary <walker.mary@epa.gov>
Subject: [External] RE: Increase value - FW: Chemours Outfall 002 Results
Importance: High

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Danny and others:

For the drinking water facilities, do we know if these results are from raw or finished water?

Becky

Becky B. Allenbach, Chief
Grants and Drinking Water Protection Branch
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EPA Region 4 - Atlanta
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From: France, Danny

Sent: Tuesday, November 21, 2017 5:01 PM

To: Culpepper, Linda <linda.culpepper@ncdenr.gov>; Allenbach, Becky <Allenbach.Becky@epa.gov>; Kemker, Carol <Kemker.Carol@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Banister, Beverly <Banister.Beverly@epa.gov>

Subject: RE: Increase value - FW: Chemours Outfall 002 Results

The data for the first set of Chemours samples (16-19th) has been completed this afternoon and will be reported out tonight and emailed to you.

Danny

From: Culpepper, Linda [mailto:linda.culpepper@ncdenr.gov]

Sent: Tuesday, November 21, 2017 2:22 PM

To: France, Danny <France.Danny@epa.gov>; Allenbach, Becky <Allenbach.Becky@epa.gov>; Kemker, Carol <Kemker.Carol@epa.gov>; Mitchell, Ken <Mitchell.Ken@epa.gov>; Banister, Beverly <Banister.Beverly@epa.gov>

Subject: Increase value - FW: Chemours Outfall 002 Results

We're on a Conf call with Chemours on the below data. Causes are said to be believed to be due to rain causing runoff in the stormwater including spill residue from Oct 6th and/or start back of the plant. The IXM production area was in operation: spray coating, hydrologist and extrusions. Chemours is evaluating their stormwater measures.

Danny - it would be helpful for us to have the lab data to compare with their timeframes. Know you were targeting to send the week of Oct 16th this week.

Thank you for your help.

Linda

Sent from my iPhone

Begin forwarded message:

Resent-From: <SRS0=/LRL=CT=apks.com=eric.rey@securence.com>

From: "Rey, Eric A." <Eric.Rey@apks.com>

Date: November 21, 2017 at 1:52:36 PM EST

To: "Lane, Bill F" <Bill.Lane@ncdenr.gov>, "sheila.holman@ncdenr.gov" <sheila.holman@ncdenr.gov>, "Culpepper, Linda" <linda.culpepper@ncdenr.gov>, "Spiller, Asher" <Aspiller@ncdoj.gov>
Cc: "Gross, Joel M." <Joel.Gross@apks.com>, "Ralph Levene (rmlevene@wlrk.com)" <rmlevene@wlrk.com>, "Compton, Christel E" <CHRISTEL.E.COMPTON@chemours.com>
Subject: [External] FW: Chemours Outfall 002 Results

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Resending as I mistyped (and received a bounce-back on) Sheila's email address:

Bill, Linda, Sheila, and Asher,

For discussion on our 2pm call today, please find below recent 3-day composite results for Outfall 002 (Table 1), as well as data correlating rain events with increases in concentration observed in recent results (Table 2). As you will see below, contributors to the 10/30/17 result may have been (1) a decrease in flow rate during the turnaround; and (2) a rain event. Chemours cannot rule out at this time that there may have been other contributing factors, including residual from the October 6th incident. Chemours continues to sample for C3 Dimer Acid near Outfall 002 and will share future results as they become available.

Table 1: Most Recently Available Outfall 002 Results			
Day	Concentration of C3 Dimer Acid near Outfall 002	Est. Flow Rate at Outfall 002 (million gallons per day (MGD))*	Est. Concentration under "Normal Flow" Conditions**
10/30/17 Composite (10/27 20:42 – 10/30 14:20)	2,400 ppt	6.096 MGD	654 ppt
11/2/17 Composite (10/30 14:20 – 11/2 13:30)	290 ppt	11.534 MGD	150 ppt

* Average of the flow rate measured for a 24-hour period starting at 8:30am. For example, the flow rate for the 10/30/17 composite is based on dividing by 3 the sum of: (1) 50% of the flow measured for the 24-hour period starting on 10/27; (2) 100% of the flow measured for the 24-hour period starting on 10/28; (3) 100% of the flow measured for the 24-hour period starting on 10/29; and (4) 50% of the flow measured for the 24-hour period starting on 10/30.

** Assumes (1) "Normal Flow" is 22.357 MGD, which is the average daily flow amount for 20 days in September; and (2) the additional flow necessary to achieve "Normal Flow" contributes zero C3 Dimer Acid.

Table 2: Rain Events and Recent Outfall 002 Results***			
Day	Concentration of C3 Dimer Acid near Outfall 002	Est. Flow Rate at Outfall 002 (million gallons per day (MGD))*	Rain Event (inches)****
11/2/17 Composite (10/30 – 11/2)	290 ppt	11.534 MGD	0

10/30/17 Composite (10/28 – 10/30)	2,400 ppt	6.096 MGD	0.76 inches (10/28 - 10/29)
10/9/17 Composite (10/5 – 10/9)	3,700 ppt	22.116 MGD	3.08 inches (10/7 – 10/9)
9/13/17 Grab	88 ppt	24.545 MGD	0
9/12/17 Grab	420 ppt	22.242 MGD	0.96 inches
9/11/17 Grab	67 ppt	21.767 MGD	0.05 inches
9/7/17 Grab	140 ppt	23.876 MGD	0.01 inches
9/6/17 Grab	250 ppt	25.004 MGD	0.61 inches
9/5/17 Grab	70 ppt	24.773 MGD	0

*** These data are a subset of the concentration data already provided to DEQ and are illustrative of the correlation recently observed between rain events and spikes in concentrations.

**** Rain data collected from the USGS data on the William O. Husk Lock and Dam located on the Cape Fear River and in close proximity to the Fayetteville Works. See https://waterdata.usgs.gov/nwis/uv?site_no=02105500.

Eric A. Rey
Associate

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eric.rey@apks.com | www.apks.com

-----Original Message-----

From: Lane, Bill F [<mailto:Bill.Lane@ncdenr.gov>]
Sent: Tuesday, November 21, 2017 11:59 AM
To: Gross, Joel M.
Cc: Ralph Levene (RMLevene@wlrk.com); Culpepper, Linda; Rey, Eric A.; Compton, Christel E
Subject: Re: [External] 866 802 1366, code 48512367

Thank you Joel.

Bill Lane
General Counsel
N.C. Department of Environmental Quality
919-707-8616

> On Nov 21, 2017, at 11:21 AM, Gross, Joel M. <Joel.Gross@apks.com> wrote:

>

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> <meeting.ics>

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